

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/573,625  
Source: TFW  
Date Processed by STIC: 03/12/2007

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , **EFS Submission User Manual - ePAVE**)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/573, 625</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u>    </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u>    </u> Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 <u>    </u> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 <u>    </u> Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. <b>Please ensure your subsequent submission is saved in ASCII text.</b>	
5 <u>    </u> Variable Length	Sequence(s) <u>    </u> contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u>    </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u>    </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 <u>    </u> Skipped Sequences (OLD RULES)	Sequence(s) <u>    </u> missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 <u>    </u> Skipped Sequences (NEW RULES)	Sequence(s) <u>    </u> missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u>    </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.	
10 <u>    </u> Invalid <213> Response	<u>Per 1.823 of Sequence Rules, the only valid &lt;213&gt; responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). &lt;220&gt;-&lt;223&gt; section is required when &lt;213&gt; response is Unknown or is Artificial Sequence. (see item 11 below)</u>	
11 <u>    </u> Use of <220>	Sequence(s) <u>    </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 <u>    </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u>    </u> Misuse of n/Xaa	<b>"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid</b>	



IFWO

## RAW SEQUENCE LISTING

DATE: 03/12/2007

PATENT APPLICATION: US/10/573,625

TIME: 16:29:17

Input Set : N:\efs\03\_12\_07\10573625\_efs\seq-list-replace.txt

Output Set: N:\CRF4\03122007\J573625.raw

3 <110> APPLICANT: Applied Research Systems ARS holding  
 5 <120> TITLE OF INVENTION: THERAPEUTIC USES OF CHEMOKINE VARIANTS  
 7 <130> FILE REFERENCE: WO933  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,625  
 C--> 9 <141> CURRENT FILING DATE: 2006-03-28  
 9 <160> NUMBER OF SEQ ID NOS: 5  
 11 <170> SOFTWARE: PatentIn version 3.0  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 76  
 16 <212> TYPE: PRT  
 17 <213> ORGANISM: Homo sapiens  
 19 <220> FEATURE:  
 21 <223> OTHER INFORMATION: Human CCL2  
 23 <400> SEQUENCE: 1  
 25 Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr  
 26 1 5 10 15  
 28 Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
 29 20 25 30  
 31 Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
 32 35 40 45  
 34 Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met  
 35 50 55 60  
 37 Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
 38 65 70 75  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 76  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: synthetic construct  
 46 <220> FEATURE:  
 48 <223> OTHER INFORMATION: Human CCL2-P8A  
 50 <400> SEQUENCE: 2  
 52 Gln Pro Asp Ala Ile Asn Ala Ala Val Thr Cys Cys Tyr Asn Phe Thr  
 53 1 5 10 15  
 55 Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
 56 20 25 30  
 58 Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
 59 35 40 45  
 61 Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met  
 62 50 55 60  
 64 Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
 65 65 70 75  
 68 <210> SEQ ID NO: 3  
 69 <211> LENGTH: 76

Does Not Comply  
 Corrected Diskette Needed  
 (pg-1,2)

Response can only  
 be either, Artificial, Unknown  
 or Genus species.  
 Pls see Item 10  
 on Error  
 Summary  
 Sheet.

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DATE: 03/12/2007

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TIME: 16:29:17

Input Set : N:\efs\03\_12\_07\10573625\_efs\seq-list-replace.txt

Output Set: N:\CRF4\03122007\J573625.raw

70 <212> TYPE: PRT  
71 <213> ORGANISM: synthetic construct  
73 <220> FEATURE:  
75 <223> OTHER INFORMATION: Human CCL2\*  
77 <400> SEQUENCE: 3  
79 Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr  
80 1 5 10 15  
82 Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
83 20 25 30  
85 Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
86 35 40 45  
88 Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Ile  
89 50 55 60  
91 Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
92 65 70 75  
95 <210> SEQ ID NO: 4  
96 <211> LENGTH: 76  
97 <212> TYPE: PRT  
98 <213> ORGANISM: synthetic construct  
100 <220> FEATURE:  
102 <223> OTHER INFORMATION: Human CCL2\*-P8A  
104 <400> SEQUENCE: 4  
106 Gln Pro Asp Ala Ile Asn Ala Ala Val Thr Cys Cys Tyr Asn Phe Thr  
107 1 5 10 15  
109 Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
110 20 25 30  
112 Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
113 35 40 45  
115 Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Ile  
116 50 55 60  
118 Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
119 65 70 75  
122 <210> SEQ ID NO: 5  
123 <211> LENGTH: 331  
124 <212> TYPE: PRT  
125 <213> ORGANISM: synthetic construct  
127 <220> FEATURE:  
129 <223> OTHER INFORMATION: Human CCL2-P8A\_IgG1 fusion protein  
131 <400> SEQUENCE: 5  
133 Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Leu Ile Ala Ala Thr  
134 1 5 10 15  
136 Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Ala Val  
137 20 25 30  
139 Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu  
140 35 40 45  
142 Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val  
143 50 55 60  
145 Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln  
146 65 70 75 80

*Same error*

## RAW SEQUENCE LISTING

DATE: 03/12/2007

PATENT APPLICATION: US/10/573,625

TIME: 16:29:17

Input Set : N:\efs\03\_12\_07\10573625\_efs\seq-list-replace.txt

Output Set: N:\CRF4\03122007\J573625.raw

```

148 Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr
149           85                      90                      95
151 Pro Lys Thr Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
152           100                    105                    110
154 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
155           115                    120                    125
157 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
158           130                    135                    140
160 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
161 145           150                    155                    160
163 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
164           165                    170                    175
166 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
167           180                    185                    190
169 Leu His Asn Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
170           195                    200                    205
172 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
173           210                    215                    220
175 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu
176 225           230                    235                    240
178 Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
179           245                    250                    255
181 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Gln Gly Gln Pro Glu
182           260                    265                    270
184 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
185           275                    280                    285
187 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
188           290                    295                    300
191 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
192 305           310                    315                    320
194 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
195           325                    330

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/573,625

DATE: 03/12/2007

TIME: 16:29:18

Input Set : N:\efs\03\_12\_07\10573625\_efs\seq-list-replace.txt

Output Set: N:\CRF4\03122007\J573625.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date